# US ECOLOGY DETROIT SOUTH Contingency Plan

# Figure G-1

# EMERGENCY CONTACT PERSONNEL / RESPONSE AGENCIES AND ORGANIZATIONS

\*Dial 9 to get an outside line

911 or (313) 596-5180 (313) 745-5711 (313) 745-3374 (313) 916-2600	(800) 424-8802 (800) 292-4706 (517) 373-7660 (517) 322-1831 (313) 676-6500	CTORS (313) 876-4000 (313) 876-4516 RS (800) 839-3975	(800) 477-4747 (800) 477-5050 (313) 267-7401	(313) 297-6000
EMERGENCY MEDICAL SERVICES  Detroit EMS Detroit Poison Control Detroit Receiving Hospital Henry Ford Hospital	GOVERNMENTAL AGENCIES  National Response Center  MI Environment Great Lakes & Energy  Pollution Emergency Alert System  MI Occupational Safety & Health Agency  US Environmental Protection Agency  (National Response Unit)	MISC. AGENCIES & RESPONSE CONTRACTORS City of Detroit Health Department Community & Industrial Hygiene US Ecology Emergency Response Services-24 HRS (80)	UTILITIES  DTE Energy Consumer's Energy Detroit Water & Sewerage Dept. (DWSD)	(utility problem) Detroit Water & Sewerage Dept. (DWSD) (release to sanitary or storm sewer)
Office: (313) 347-1320 Home: (734) 844-1128 Cell: (734) 576-0142	ATOR Office: (313) 347-1330 Cell: (586) 229-0253 Home: (586) 465-9626		Office: (734) 521-8032 Cell: (734) 845-8410	Office: (734) 641-2345
EMERGENCY COORDINATOR Paul Haratyk (Operations Manager) 46400 Hanford Rd. Canton, MI 48187	ALTERNATE EMERGENCY COORDINATOR John C. Barta (General Manager) Offii 39006 Lakeshore Harrison Township, MI 48045 Hon		CORPORATE COMMUNICATIONS Dave Crumrine	RAIL CONTACT Rail Road Dispatch (Adrian & Blissfield)

911 or (313) 596-2900

911 or (313) 224-2222

Wayne County Sheriff Department

Michigan State Police Department

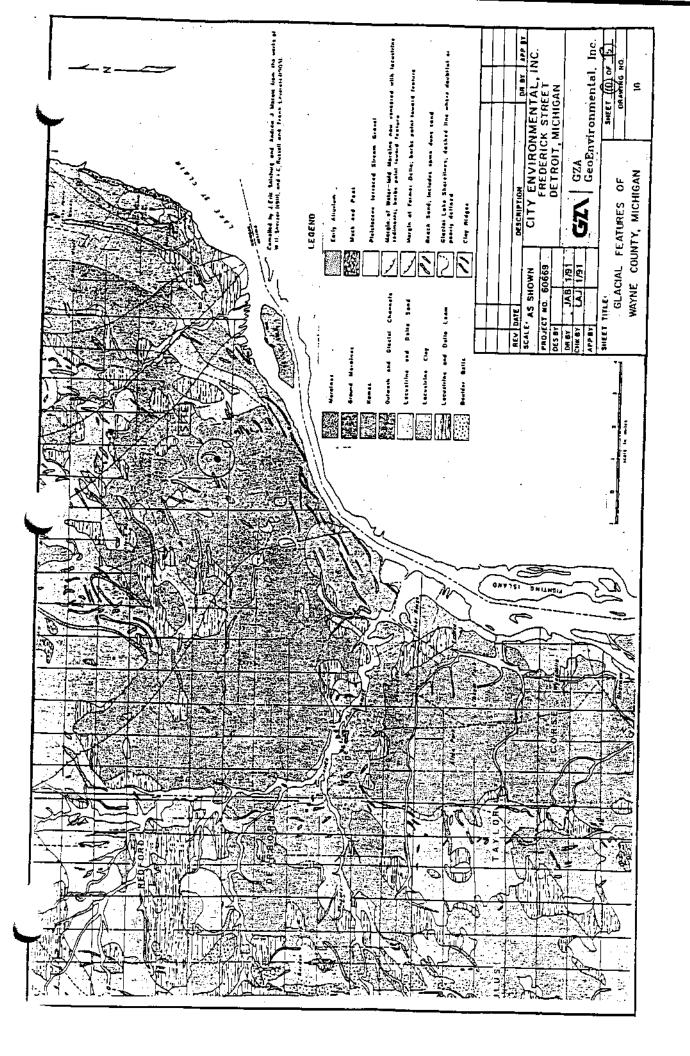
City of Detroit Fire Department

City of Detroit Police Department

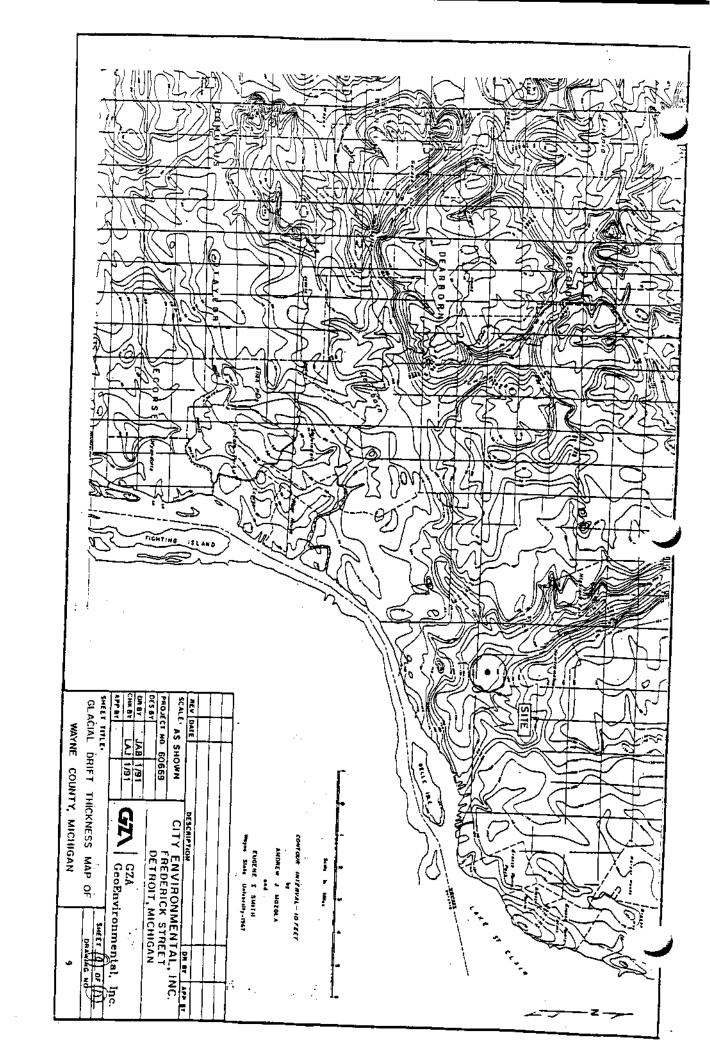
911 or (313) 596-5700 911 or (248) 584-5740

POLICE, FIRE & WAYNE COUNTY SHERIFF DEPARTMENT

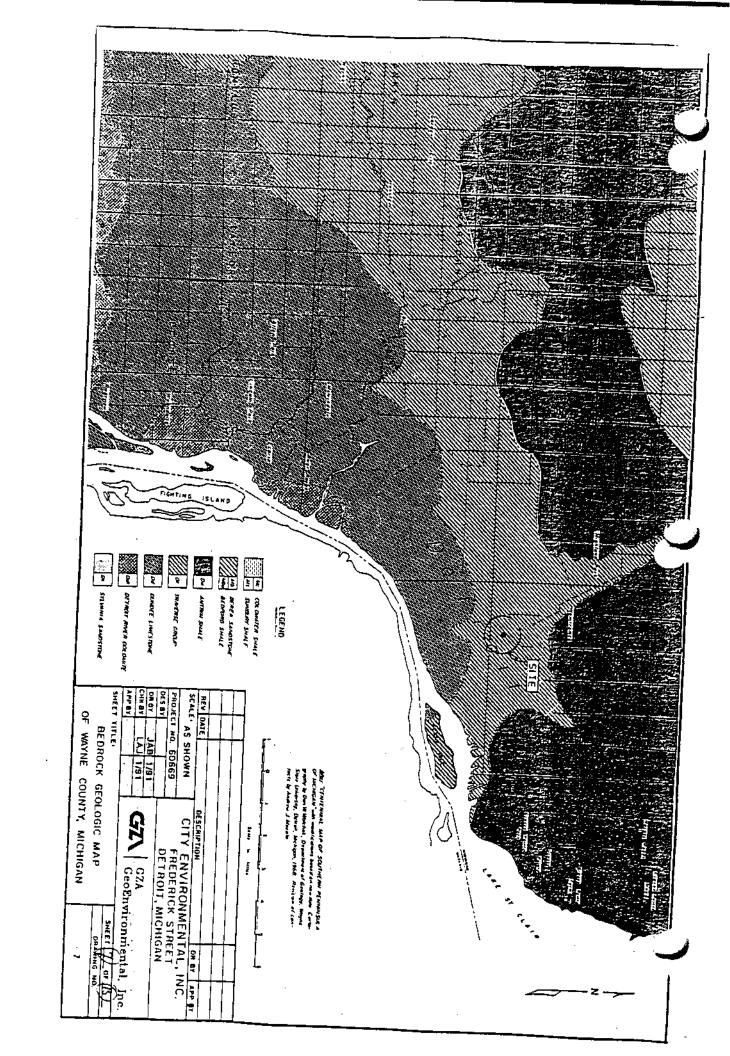
# FIGURE J-1 GLACIAL SURFACE GEOLOGY MAP



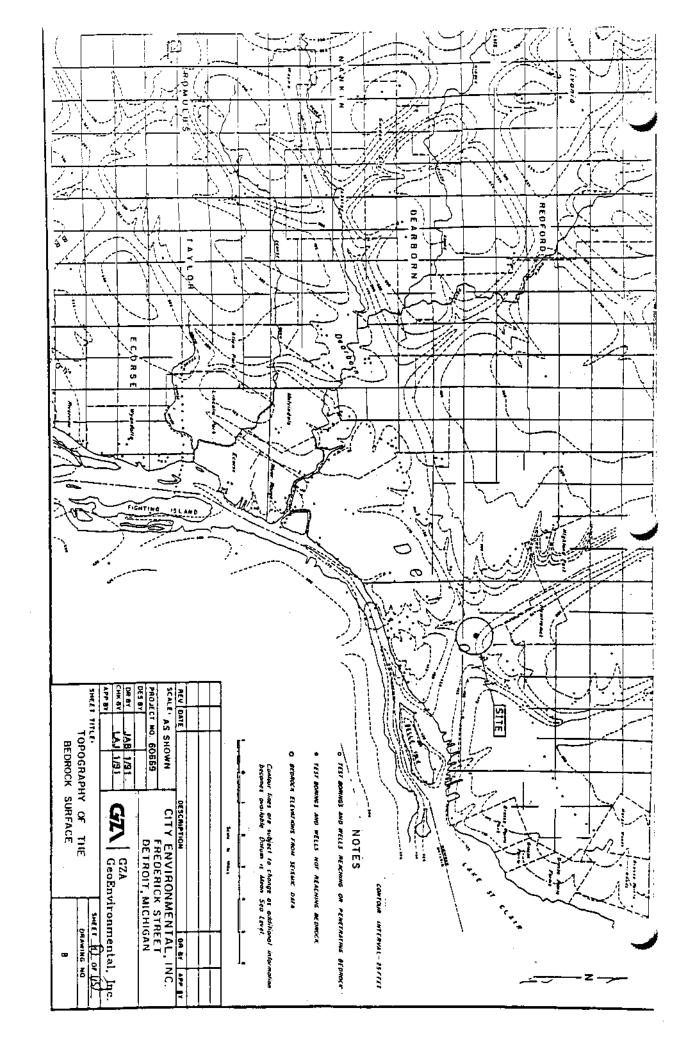
# FIGURE J-2 GLACIAL DRIFT THICKNESS MAP



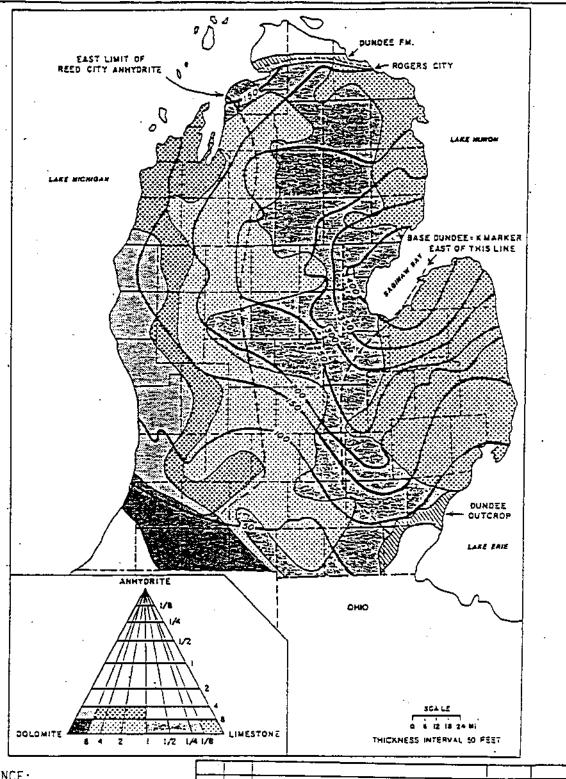
# FIGURE J-3 BEDROCK FORMATION MAP



# FIGURE J-4 BEDROCK SURFACE MAP



# FIGURE J-5 THICKNESS LITHOFACES MAP OF DUNDEE FORMATION



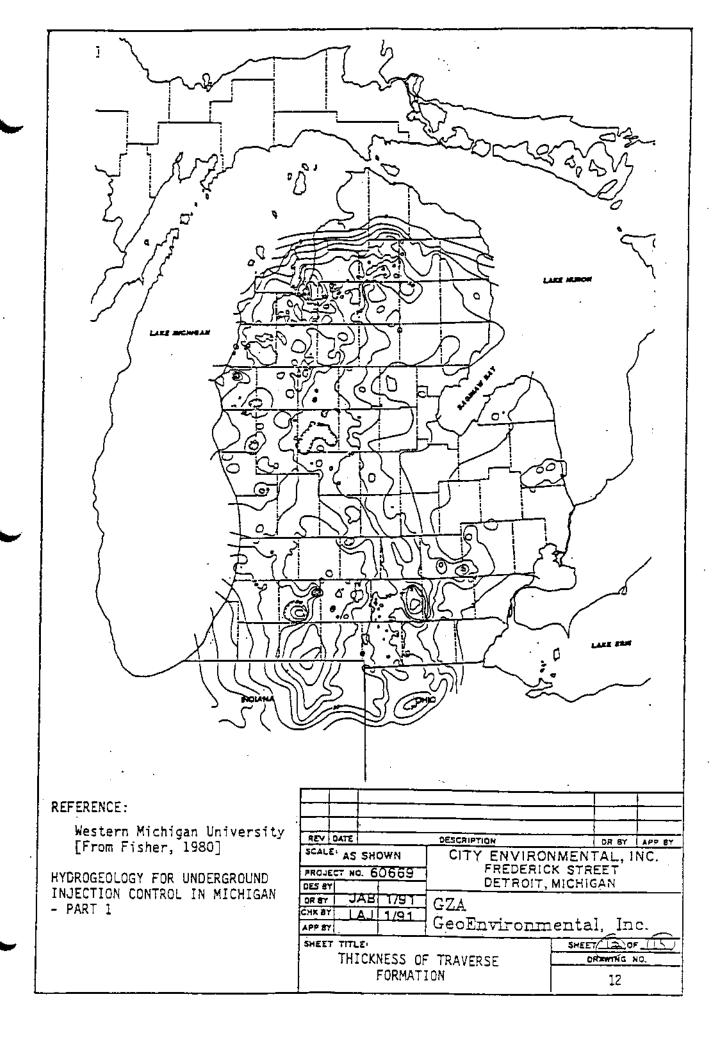
### REFERENCE:

Western Michigan University [From Gardner, 1974]

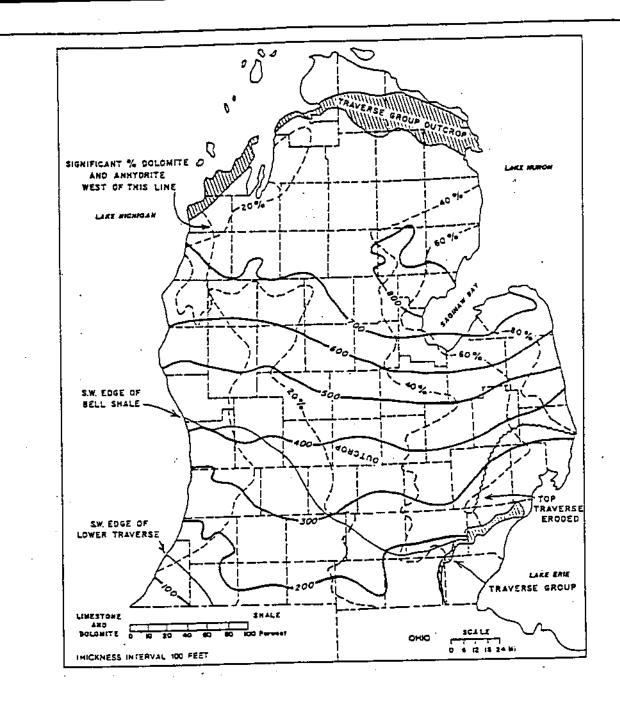
HYDROGEOLOGY FOR UNDERGROUND INJECTION CONTROL IN MICHIGAN - PART 1

							<u> </u>
	DATE			NOITHIRD230		DR BY	APP BY
			0669 0669	CITY ENVIRON FREDERIC DETROIT,	K STR	EET	NC.
DR SY CHK BY APP BY	U		1/91	GZA GeoEnvironn	penta	l, Inc	
SHEET	THI	CKN	YESS -	LITHOFACIES EE FORMATION		AWING :	

# FIGURE J-6 THICKNESS LITHOFACES MAP OF TRAVERSE FORMATION



# FIGURE J-7 THICKNESS % SHALE MAP OF TRAVERSE GROUP



### REFERENCE:

Western Michigan University [From Gardner, 1974]

HYDROGEOLOGY FOR UNDERGROUND INJECTION CONTROL IN MICHIGAN - PART 1

REV DATE	DESCRIPTION	DR BY APP BY
PROJECT NO. 60669	CITY ENVIRON FREDERIC DETROIT,	K STREET
DES 87 JAB 1/91	GZA	
APP BY AJ 1/91	GeoEnviron	mental Inc.
THICKNESS - PE MAP OF TRAVERS	DRAWING NO.	

Inspector:			Date/Time:			
DESCRIPTION	Yes	No	CORRECTIVE ACTION (Who, What)	CORRECTIVE ACTION (Who/What)	COMPLETED (When)	
Drum Storage Area (Rows 37-40						
Lighting and Roll-up Doors - In Working Doors						
Containers - Staged in rows						
Aisles - 2' Clear						
Labels - Complete and Readable						
Containers - Free of Damage or Deterioration						
Containers - Free of Spills/Leaks						
Containment - Walls/Floor Free of Chips/Cracks						
Containment - Sump Free of Liquid/Debris						
Fire Extinguisher - Charged/In working order						
Eye Wash/Spill Kit - Accessible/Stocked						
Depack Booth						
Lighting in working order						
Groiunding - In place						
Labels - Complete & Readable						
Containment - Free of Liquid						
Free of Spills/Leaks						
Fire Extinguisher - Charged/In working order						
Fire suppression - Charged in working order						
Ventilation/Hood System - In working order						

### **EQD Monitoring, Operational and Structural Systems**

Inspector:				Date/Time:	
			CORRECTIVE ACTION	CORRECTIVE ACTION	
DESCRIPTION	Yes	No	(Who, What)	(Who/What)	COMPLETED (When)
Loading Dock					
Lighting - In Working Order					
Dock Plates - Good Integrity					
Containers - Staged in Rows					
Containment Sump - Free of Liquid/Debris					
Container Staging Area (Rows 1-12)					
Lighting and Roll-up Doors - In Working Order					
Containers - Staged in Rows					
Aisles - 2' Clear					
Labels - Complete & Readable					
Containers - Free of Damage or Deterioration					
Containers - Free of Spills/Leaks					
Containment - Walls/Floor Free of Cracks/Chips					
Containment - Sump Free of Liquid/Debris					
Fire Extinguisher - Charged/In Working Order					
Eye Wash/Spill Kit - Accessible / Stocked					
Container Storage (Rows 13-36A/B)					
Lighting and Roll-up Doors - In Working Order					
Containers - Staged in Rows					
Aisles - 2' Clear					
Containers - Free of Damage or Deterioration			-		
Labels - Complete & Readable					
Containment - Walls/Floor Free of Cracks/Chips					
Free of Spills/Leaks					
Sump Free of Liquid/Debris					
Fire Extinguisher - Charged/In Workin Order					
Eye Wash/Spill Kit - Accessible/Stocked					
Fire Extinguisher - Charged/In Working Order					
North Container Storage Pad					
Containers - Staged in Rows					
Aisles - 2' Clear					
Labels - Complete & Readable					
Containers - Free of Damage or Deterioration					
Containers - Free of Spills/Leaks					
Containment - Walls/Floor Free of Cracks/Chips					
Containment - Sump Free of Liquid/Debris					

Inspector:			Date/Time:	
DESCRIPTION	Yes	No	CORRECTIVE ACTION (Who, What)	COMPLETED (When)
200 Series Treatment/Storage Tanks (T-201 through T-208)				
Tanks - Free of Spills / Leaks				
Tanks - Free of Corrosion				
Pumps - Free of Leaks / Corrosion				
Transfer Lines- Free of Leaks / Corrosion				
High Level Indicator Functioning				
Piping & Equip Free of Leaks / Corrosion				
Valves - Free of Leaks / Corrosion				
Drip Cans - Labeled, Covered When Not in Use				
Containment - Walls/Floor Free of Cracks/Chips				
Containment - Empty				
Loading/Unloading Area - Free of spills, trackout, debris, accumulated precipitation				
Fire Extinguisher - Charged / In Working Order				
Eye Wash / Spill Kit - Accessible / Stocked				
300 Series Treatment/Storage Tanks (T-301 through T-306)				
Tanks - Free of Spills / Leaks				
Tanks - Free of Corrosion				
Pumps - Free of Leaks / Corrosion				
Transfer Lines- Free of Leaks / Corrosion				
High Level Indicator Functioning				
Piping & Equip Free of Leaks / Corrosion				
Valves - Free of Leaks / Corrosion				
Drip Cans - Labeled, Covered When Not in Use				
Containment - Walls/Floor Free of Cracks/Chips				
Containment - Empty				
Loading/Unloading Area - Free of spills, trackout, debris, accumulated precipitation				
Fire Extinguisher - Charged / In Working Order				
Eye Wash / Spill Kit - Accessible / Stocked				

Inspector:			Date/Time:		
DESCRIPTION	Yes	No	CORRECTIVE ACTION (Who, What	t)	COMPLETED (When)
Chemical Precipitation Container Storage Area					
Aisles - 2' Clear					
Containers - Free of Damage or Deterioration					
Containers - Free of Spills / Leaks					
Containers - Closed When Not in Use					
Inventory - Less than 120 Containers + 1 RO Box					
Containment - Walls/Floor Free of Cracks/Chips					
Containment - Empty					
Roll-off Bay - Free of Spills/Leaks/Cracks/Chips					
Fire Extinguisher - Charged / In Working Order					
Eye Wash / Spill Kit - Accessible / Stocked					
Acid Room Container Storage Area					
Labels - Complete & Readable					
Aisles - 2' Clear					
Containers - Free of Damage or Deterioration					
Containers - Free of Spills / Leaks					
Containers - Closed When Not in Use					
Drip Cans - Labeled, Covered When Not in Use					
Inventory - Less than 120 Containers					
Containment - Walls/Floor Free of Cracks/Chips					
Containment - Empty					
Fire Extinguisher - Charged / In Working Order					
Eye Wash / Spill Kit - Accessible / Stocked					
Rail Siding					
Containers - Free of Spills / Leaks					
Containers - Free of Damage or Deterioration					
Coating - Good Integrity					
Containment - Empty					
Valves - Free of Leaks / Corrosion					
Transfer Lines- Free of Leaks / Corrosion					
Fence&Fence line - Free of Evidence of leaks/damage					
Gates - In working order					
Locks - Present and In working order					

Inspector:			Date/Time:	
DESCRIPTION	Yes	No	CORRECTIVE ACTION (Who, What)	COMPLETED (When)
Oil Treatment/Storage Tanks (T-101 through T-106, 7	Γ-109 th	rough T	-123)	
Tanks - Free of Spills / Leaks				
Tanks - Free of Corrosion				
Pumps - Free of Leaks / Corrosion				
Transfer Lines- Free of Leaks / Corrosion				
High Level Indicator Functioning				
Piping & Anc. Equip Free of Leaks / Corrosion				
Valves - Free of Leaks / Corrosion				
Drip Cans - Labeled, Covered When Not in Use				
Containment - Walls/Floor Free of Cracks/Chips				
Containment - Empty				
Loading/Unloading Area - Free of spills, trackout,				
debris, accumulated precipitation				
Fire Extinguisher - Charged / In Working Order				
Eye Wash / Spill Kit - Accessible / Stocked				
500 Series Treatment/Storage Tanks (T-513 through T	T- <b>516</b> )			
Tanks - Free of Spills / Leaks				
Tanks - Free of Corrosion				
Pumps - Free of Leaks / Corrosion				
Transfer Lines- Free of Leaks / Corrosion				
High Level Indicator Functioning				
Piping & Anc. Equip Free of Leaks / Corrosion				
Valves - Free of Leaks / Corrosion				
Drip Cans - Labeled, Covered When Not in Use				
Containment - Walls/Floor Free of Cracks/Chips				
Containment - Empty				
Loading/Unloading Area - Free of spills, trackout, debris, accumulated precipitation				
Fire Extinguisher - Charged / In Working Order				
Eye Wash / Spill Kit - Accessible / Stocked				

Inspector:			Date/Time:	
DESCRIPTION	Yes	No	CORRECTIVE ACTION (Who, What)	COMPLETED (When)
Non-Haz Treatment/Storage Tanks (East, West, T-107	7, T-108)			
Tanks - Free of Spills / Leaks				
Tanks - Free of Corrosion				
Pumps - Free of Leaks / Corrosion				
Transfer Lines- Free of Leaks / Corrosion				
High Level Indicator Functioning				
Piping & Anc. Equip Free of Leaks / Corrosion				
Valves - Free of Leaks / Corrosion				
Drip Cans - Labeled, Covered When Not in Use				
Containment - Walls/Floor Free of Cracks/Chips				
Containment - Empty				
Loading/Unloading Area - Free of spills, trackout,				
debris, accumulated precipitation				
Fire Extinguisher - Charged / In Working Order				
Eye Wash / Spill Kit - Accessible / Stocked				
Product Tanks (A-1 through A-6, C-1)				
Tanks - Free of Spills / Leaks				
Tanks - Free of Corrosion				
Pumps - Free of Leaks / Corrosion				
Transfer Lines- Free of Leaks / Corrosion				
High Level Indicator Functioning				
Piping & Anc. Equip Free of Leaks / Corrosion				
Valves - Free of Leaks / Corrosion				
Drip Cans - Labeled, Covered When Not in Use				
Containment - Walls/Floor Free of Cracks/Chips				
Containment - Empty				
Loading/Unloading Area - Free of spills, trackout, debris, accumulated precipitation				
Fire Extinguisher - Charged / In Working Order				
Eye Wash / Spill Kit - Accessible / Stocked				

Inspector:			Daily Inspection  Date/Time:				
DESCRIPTION	Yes	No	CORRECTIVE ACTION (Who/What)	COMPLETED (When)			
Treatment Tanks (T-701 through T- 706)							
Tanks - Free of Leaks							
Containment - Walls/Floor Free of Cracks/Chips							
Vault Ledges - Clean/Free of Debris							
Sample Ports - Empty/Free of Debris							
Operating Floor / Container Storage							
Floor - Free of Spills							
Containment - Empty/Free of Liquid							
Containment - Grates in Good Repair							
Containers - Free of Damage or Deterioration							
Roll-Off Boxes Covered							
Container Labels Complete & Readable							
Aisles - 2' Clear							
Bunkers/Treatment Chemicals - Free of Spill/Leaks							
Pug Mill							
Screw Feeders, Mixers, Conveyors - Integrity							
Operational Fitness							
Control Room - Free of Accumulated Dust							
Air Pollution Control Equipment							
Operational Fitness							
Lime/Waste Storage Silos							
Silos - Free of Damage or Deterioration							
Free of Spill / Leaks							
Transfer Lines - Free of Damage or Deterioration							
Valves - Free of Leaks / Corrosion							
Free of Dust Accumulation Beneath Silos							
North Side							
Free of Track Out / Dust Accumulation							
Free of Spills and Accumulated Precipitation							
Fence&Fence Line - Free of Evidence of Leaks / Damage							
Tank 901							
Free of Spills / Leaks							
High Level Indicator Functioning							
Covered When Not in Use							

EQD SURFACE CONDITIONS

Weekly Inspection

Inspector:			Date/Time:				
DESCRIPTION	Yes	No	CORRECTIVE ACTION (Who/What)	COMPLETED (When)			
Chemical Precipitation							
Cracks							
Seals							
Deterioration							
Chemical Fixation							
Cracks							
Seals							
Deterioration							
Container Staging Area (Dock)							
Cracks							
Seals							
Deterioration							
Container Storage Area (Warehouse)							
Cracks							
Seals							
Deterioration							
Rail Load / Unload Area							
Cracks							
Seals							
Deterioration							
Tank Truck Load / Unload Area							
Cracks							
Seals							
Deterioration							
General Traffic Areas							
Cracks							
Seals							
Deterioration							

Inspector:	100471011			CORRECT"	T ACTION	(MILE NAUL - 4)		·
DESCRIPTION (Quantity)	LOCATION	Yes	No	CORRECTIVI	E ACTION (	(wno, wnat)	COMPL	ETED (Whei
I. Security	Denimenton							
Perimeter Fence Intact, Secure	Perimeter Perimeter Fence							
Warning Signs Present  II. Fire Extinguishing Systems	Perimeter Fence							
Fire Extinguishing Systems	Laboratory							
Fire Extinguishers (2) Fire Extinguishers (11)	Main Plant						_	
Fire Extinguishers (11) Fire Extinguishers (4)	Oil/Water Area							
Fire Extinguishers (4)	Chem Fixation							
Fire Extinguishers (7)	Container Storage							
Fire Extinguishers (7)	Labpack						_	
Fire Extinguishers (3)	Receiving						_	
III. Spill Control Equipment	Receiving							
Drain Block Visquene/weight	Plant Spill Kits							
Front End Loader	On-site							
Sweeper with backup alarm & Water								
Absorbents	Plant/Spill Kits						+	
IV. Communications & Alarm Sys								
iv. Communications & Alaim Sys	tems							
	Daily systems chec	k· X'd =ol	(12	3 4 5 6 7	8 9 10	11 12 13 1	14 15 16	17 18 19
Radio /Telephone	20 21 22 23 24			29 30 31	0 0 10	11 12 10	14 10 10	17 10 10
Radio /Telephone	Security	. 20 20	<u> </u>	1			1	
Radio /Telephone	Receiving							
Radio /Telephone	Laboratory							
Radio /Telephone	Plant							
Emergency Coordinator & Alternate's	Personal							
V. Decontamination Equipment	Weekly Shower &	Evewash	check:	X'd = OK				
Shower & Eyewash (1)	Laboratory			WEEK 1	WEEK2	WEEK3	WEEK4	
Shower & Eyewash (3)	Main Plant			WEEK 1	WEEK2	WEEK3	WEEK4	
Shower & Eyewash (1)	Oil/Water Area			WEEK 1	WEEK2	WEEK3	WEEK4	
Shower & Eyewash (2)	Container Storage			WEEK 1	WEEK2	WEEK3	WEEK4	
Shower & Eyewash (1)	Labpack			WEEK 1	WEEK2	WEEK3	WEEK4	
Shower (1)	Locker Room			WEEK 1	WEEK2	WEEK3	WEEK4	
Respiratory protective equipment	can only be issued	by the R	egulator	y Specialist to	trained an	d medically f	it employe	es.

### **EQUIPMENT CAPABILITIES & INSPECTION CRITERIA**

Verify that perimeter fence is intact and secure to prevent unknowing entry to the site.

Verify that warning signs are visable and present to prevent unknowing entry to the site.

### II. Fire Extinguishing Systems

Verify that units are at the locations and in the quantities indicated in this inspection report to enable quick access to equipment for fire Inspect to determine that all units are maintaining adequate discharge pressure to ensure effective fire suppression.

Verify that maintenance/service contract(s) are being fulfilled by vendor.

### III. Spill Control Equipment

Front End Loader: Determine the present, on-site availability of the equipment to move absorbents or sand and contained/absorbed spill Sweeper & Water Truck: Determine the present, on-site availability of the equipment to clean up contained spill residues. Verify that visquene and weight is available to block drains and provide containment of spilled materials.

Verify that at least 1 pallet of absorbent is available to soak up spilled, contained material.

### IV. Communications & Alarm Systems

Record daily check that phone system and radios are working with a mark on the date to indicate "OK" on the day inspected.

Verify functional status of base stations and radio equipment used in the waste processing area to allow immediate on-site

Verify telephone service provides communications between waste processing plant and Security, Receiving, Lab, and the Emergency

### V. Decontamination Equipment

Record weekly check that Showers and Eyewashes are working with a mark on the inspection week to indicate "OK" on the day inspected. Verify that showers and eyewash are covered properly to provide a clean supply of water to rinse body parts affected by chemicals. Verify that all areas/equipment are operational to provide water to rinse chemicals from equipment.